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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,060	06/11/2007	Walter Stephan	P71302US0	4619
	7590 09/14/201 OLMAN PLLC	EXAMINER		
400 SEVENTH	STREET N.W.	KILIMAN, LESZEK B		
SUITE 600 WASHINGTOI	N, DC 20004		ART UNIT	PAPER NUMBER
	•		1787	
			MAIL DATE	DELIVERY MODE
			09/14/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		1	Application No.	Applicant(s)	Applicant(s)			
			10/584,060	STEPHAN ET AL	STEPHAN ET AL.			
		E	Examiner	Art Unit				
		-	eszek b. kiliman	1787				
Period fo	The MAILING DATE of this communi or Reply	cation appea	ers on the cover sheet wit	h the correspondence a	ddress			
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MANDERS OF	AILING DAT of 37 CFR 1.136(i unication. itutory period will i will, by statute, ca	E OF THIS COMMUNIC a). In no event, however, may a re apply and will expire SIX (6) MONI use the application to become ABA	ATION. ply be timely filed THS from the mailing date of this of the company of				
Status								
1)[\	Responsive to communication(s) file	d on 24 lune	2010					
•	Responsive to communication(s) filed on <u>24 June 2010</u> . This action is FINAL . 2b) This action is non-final.							
3)		<i>7</i> —		ore prosecution as to th	a marite is			
٥/ك	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
D: '''	·	oo anaon Ex	pario Quayro, 1000 C.D.	11, 100 0.0. 210.				
-	on of Claims							
	4)⊠ Claim(s) <u>2-11,14,15,18,20 and 21</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	6) Claim(s) <u>2,4,6-11,14,15,18,20 and 21</u> is/are rejected.							
7)🛛	Claim(s) <u>3 and 5</u> is/are objected to.							
8)□	Claim(s) are subject to restrict	tion and/or e	lection requirement.					
Applicati	on Papers							
9)□	The specification is objected to by the	e Examiner.						
•			ted or b)□ objected to b	ov the Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
			•	• •	ER 1 121(d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim f	for foreign pr	iority under 25 U.S.C. &	110(a) (d) or (f)				
· .	_	or roreign pr	ionty under 33 O.S.C. §	119(a)-(u) or (i).				
aji	a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen			_					
	e of References Cited (PTO-892)	TO 040\		ummary (PTO-413))/Mail Date				
	e of Draftsperson's Patent Drawing Review (Pination Disclosure Statement(s) (PTO/SB/08)	10-948)		formal Patent Application				
Paper No(s)/Mail Date <u>6/24/10</u> . 6) Other:								

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2,4,6-11,14-15,18,20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kelso'803 (UK) in view of Sunol'308.

The applied Kelso'803 reference discloses a "full-cell" process of impregnation of wood. See page 1, lines 15-30. In such process pressure is applied to a wood substrate and then impregnation liquid is applied. The disclosed process uses temperature and pressure to force water based wood treatment composition. The Sunol'308 reference teaches that it is known in the art to impregnate wood with polymer using pressure. See column 1, lines 29-58. It would have been obvious to one of ordinary skill in the art to add a temperature element in the first step of applying pressure in Kelso'803 method since such would improve impregnation process by removing water and other impurities contained in the wood. Also, it would have been obvious to supplement water born composition with liquid resin since Sunol'308 teaches that wood can be impregnated just with polymers or monomers (monomers can be polymerized in

wood by application of radiation) and such would improve efficiency of the impregnation and increased amount of resin in the wood.

It would have been obvious to vary temperature, pressure and time of the process since such would optimize properties of the final wood product.

Applicants have argued that the applied Kelso'803 reference does not teach or suggest the claimed invention. The examiner respectfully disagree. The teachings of the prior art do not need to disclose all details of the claimed invention. The examiner submits that Kelso'803 discloses essential elements of the claimed invention. First, pressure is applied to a wood substrate and wood is impregnated. Second, Kelso'803 teaches use of temperature. The examiner submits that it would have been obvious to one having ordinary skill in the art at the time of the invention to optimize conditions of the process and that includes optimizing pressure, temperature, timing and composition. Applying temperature to a different stages of the process is commonly practiced in the art. Furthermore, impregnation of wood with liquid resin instead of water based solution would have been obvious to one having ordinary in view of the teachings disclosed in Sunol'308.

Amendments and remarks filled by applicants on 6/24/10 have been fully considered. The examiner maintains the above rejections.

Allowable Subject Matter

Claims 3 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 20 may also be allowable if the structure included resin film placed similar to the structure indicated in method claim 3 or article by method claim 5.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to leszek b. kiliman whose telephone number is 571-272-1509. The

examiner can normally be reached on M-T, 6.30-5.00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, calie shosho can be reached on 571-272-1123. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/leszek b kiliman/

Primary Examiner, Art Unit 1787